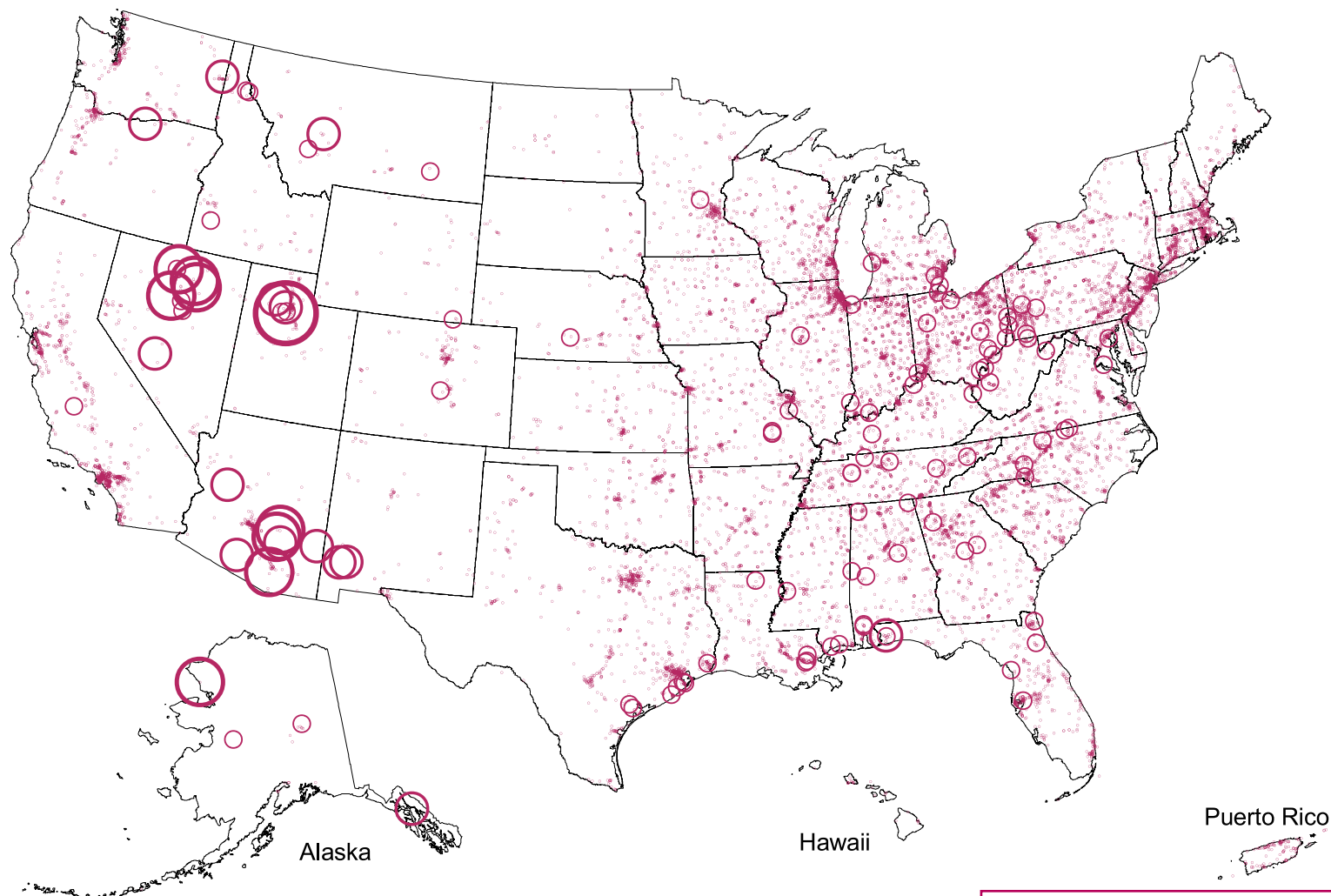


# NATIONAL FACT SHEET



# 2001 Toxics Release Inventory

## UNITED STATES



### U.S. TRI Facilities and Forms, 2001

Population	289,545,849
Square Miles	3,540,368
Total Facilities	24,896
Total Forms	95,513
Form As	12,295

The largest circle on the map represents the largest facility for on-site releases in the country. All circles are proportionally-sized to represent the on-site releases at each facility within the country.



# 2001 Toxics Release Inventory

UNITED STATES

## Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	5,580,273,993
Air Emissions	1,679,373,058
Surface Water Discharges	220,796,115
Underground Injection Class I Wells	193,436,563
Underground Injection Class II-V Wells	21,987,723
On-site Land Releases to RCRA Subtitle C Landfills	138,220,131
Other On-site Land Releases	3,326,460,403
Off-site Releases (Transfers Off-site to Disposal)*	577,723,085
<b>Total On- and Off-site Releases</b>	<b>6,157,997,078</b>
Recycled On-site	7,558,346,576
Recycled Off-site	1,970,123,256
Energy Recovery On-site	2,646,959,925
Energy Recovery Off-site	826,420,385
Treated On-site	6,931,390,303
Treated Off-site**	626,325,057
Quantity Released On- and Off-site***	6,176,026,135
<b>Total Production-related Waste Managed</b>	<b>26,735,591,638</b>
<b>Non-production-related Waste Managed</b>	<b>56,889,153</b>
<b>Transfers Off-site for Further Waste Management, including Disposal</b>	
Recycling	1,950,840,492
Energy Recovery	840,332,852
Treatment	279,686,495
Publicly Owned Treatment Works (POTWs)	339,913,774
Metals and Metal Category Compounds	2,211,172
Non-metal TRI Chemicals**	337,702,602
Other Off-site Transfers****	1,781,068
Other Off-site Transfers to Disposal (not including metals to POTWs)	664,339,613
<b>Total Transfers Off-site for Further Waste Management, including Disposal</b>	<b>4,076,894,294</b>

\* Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

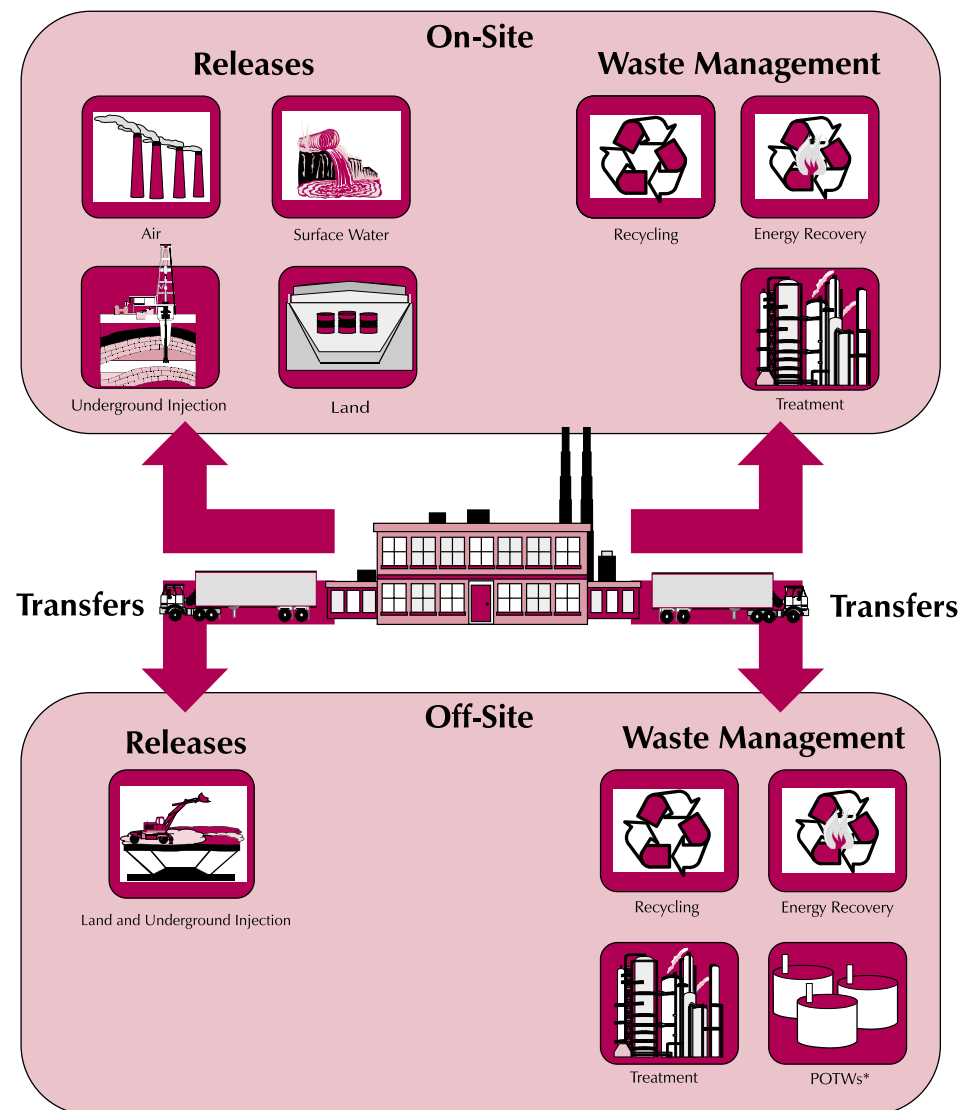
## For More Information . . .

**EPA Headquarters Contact:**  
U.S. Environmental Protection Agency  
Attn: TRI Program  
MC: 2844T (EPA West, 5th Floor)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

**To obtain TRI data and documents:**  
Phone: (202) 564-9554  
E-mail: [tridocs@epa.gov](mailto:tridocs@epa.gov)  
URL: <http://www.epa.gov/tri/tridata/tri01>

**To obtain TRI data use assistance, call TRI User Support Service (TRI-US):**  
Phone: (202) 566-0250  
E-mail: [tri.us@epa.gov](mailto:tri.us@epa.gov)

## Information Collected under TRI



\*Publicly Owned Treatment Works



# 2001 Toxics Release Inventory

## UNITED STATES

### TRI On- and Off-site Releases, 2001

On-site Releases	Pounds
Total Air Emissions	1,679,373,058
Fugitive Air Emissions	240,558,980
Point Source Air Emissions	1,438,814,078
Surface Water Discharges	220,796,115
Underground Injection	215,424,286
Class I Wells	193,436,563
Class II-V Wells	21,987,723
On-site Land Releases	3,464,680,533
RCRA Subtitle C Landfills	138,220,131
Other On-site Landfills	308,599,626
Land Treatment	14,122,290
Surface Impoundments	965,279,810
Other Disposal	2,038,458,676
<b>Total On-site Releases</b>	<b>5,580,273,993</b>
Off-site Releases	
Storage Only*	6,121,927
Solidification/Stabilization**	123,464,082
Metals and Metal Category Compounds Only	
Wastewater Treatment (Excluding POTWs)***	3,768,614
Metals and Metal Category Compounds Only	
Transfers to POTWs****	2,211,172
Metals and Metal Category Compounds Only	
Underground Injection	16,137,684
Landfills/Surface Impoundments	364,712,642
Land Treatment	7,263,730
Other Land Disposal	22,291,065
Other Off-site Management	15,606,659
Transfers to Waste Broker for Disposal	12,016,593
Unknown*****	4,128,918
<b>Total Off-site Releases</b>	<b>577,723,085</b>
<b>(Transfers Off-site to Disposal)</b>	
<b>Total On- and Off-site Releases</b>	<b>6,157,997,078</b>

**Note:** On-site Releases are from Section 5 of Form R. Off-site Releases are from Section 6 (transfers off-site to disposal) of Form R. Off-site Releases include metals and metal category compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs. Off-site Releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

\* Storage only (disposal code M10) indicates that the toxic chemical is sent off-site for storage because there is no known disposal method. Amounts reported as transferred to storage only are included as a form of disposal (off-site release).

\*\* Beginning in reporting year 1997, transfers to solidification/stabilization of metals and metal category compounds (waste treatment code M41) are reported separately from transfers to solidification/stabilization of non-metal TRI chemicals (waste treatment code M40). Because this treatment method prepares a metal for disposal, but does not destroy it, such transfers are included as a form of disposal (off-site release). Reports under code M40 of metals and metal category compounds have been included in solidification/stabilization of metals and metal category compounds in this report.

\*\*\* Beginning in reporting year 1997, transfers to wastewater treatment (excluding POTWs) of metals and metal category compounds (waste treatment code M61) are reported separately from transfers to wastewater treatment of non-metal TRI chemicals (waste treatment code M60). Because wastewater treatment does not destroy metals, such transfers are included as a form of disposal (off-site release). Transfers of metals and metal category compounds reported under code M60 have been included in transfers of metals and metal category compounds to wastewater treatment.

\*\*\*\* Reported as discharges to POTWs in Section 6.1 of Form R. EPA considers transfers of metals and metal category compounds to POTWs as an off-site release because sewage treatment does not destroy the metal content of the waste material.

\*\*\*\*\* Unknown (disposal code M99) indicates that a facility is not aware of the type of waste management used for the toxic chemical that is sent off-site. Amounts reported as unknown transfers are treated as a form of disposal (off-site release).

### Total Releases On- and Off-site by Industry, 2001

SIC Code	Industry	Total On- and Off-site Releases* Pounds
10	Metal Mining	2,782,554,257
12	Coal Mining	16,117,710
20	Food	125,063,185
21	Tobacco	3,563,517
22	Textiles	6,961,084
23	Apparel	401,226
24	Lumber	31,415,989
25	Furniture	8,008,810
26	Paper	195,654,165
27	Printing	19,719,402
28	Chemicals	582,584,818
29	Petroleum	71,384,317
30	Plastics	88,535,433
31	Leather	2,614,681
32	Stone/Clay/Glass	40,460,674
33	Primary Metals	558,588,679
34	Fabricated Metals	64,018,394
35	Machinery	15,359,651
36	Electrical Equip.	23,934,059
37	Transportation Equip.	80,629,943
38	Measure./Photo.	9,375,245
39	Miscellaneous	8,433,757
--	Multiple codes 20-39	103,926,308
--	No codes 20-39	13,763,561
491/493	Electric Utilities	1,062,247,281
5169	Chemical Wholesale Distributors	1,468,270
5171	Petroleum Bulk Terminals/Bulk Storage	21,340,651
7389/4953	Hazardous Waste/Solvent Recovery	219,872,011
<b>Total for All Industries</b>		<b>6,157,997,078</b>

\* Includes transfers for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.



# 2001 Toxics Release Inventory

UNITED STATES

## On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the Country (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases On- and Off-site** Pounds
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	
—	Copper compounds	1,416,114	418,663	894,183	998,260,861	17,096,211	1,018,086,032
—	Zinc compounds	6,159,692	2,172,966	9,656,931	738,610,608	205,468,291	962,068,488
7647-01-0	Hydrochloric acid	587,134,079	2,445	48,570	188,608	746,442	588,120,144
—	Lead compounds	1,254,381	362,122	6,232,815	364,115,209	50,213,158	422,177,685
—	Manganese compounds	1,877,226	6,236,782	12,481,513	331,701,802	47,995,623	400,292,945

## On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the Country

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases On- and Off-site** Pounds
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds	
—	Lead compounds	1,254,380.94	362,122.44	6,232,814.69	364,115,208.54	50,213,158.38	422,177,685.00
7439-92-1	Lead	378,740.71	51,297.37	6.65	15,304,665.99	5,079,312.56	20,814,023.27
—	Mercury compounds	125,764.77	1,463.42	9,315.75	4,484,228.72	151,567.27	4,772,339.93
—	Polycyclic aromatic compounds	1,146,126.02	16,384.58	332.40	159,816.95	1,536,544.27	2,859,204.23
1336-36-3	Polychlorinated biphenyls (PCBs)	1,359.90	2.80	0.00	2,491,162.15	12,251.02	2,504,775.86
79-94-7	Tetrabromobisphenol A	54,004.91	9.00	0.00	196,675.00	625,481.75	876,170.66
7439-97-6	Mercury	24,698.08	341.73	460.40	31,760.89	76,715.67	133,976.77
191-24-2	Benzo(g,h,i)perylene	31,455.26	685.17	2.65	8,569.61	86,240.63	126,953.32
40487-42-1	Pendimethalin	3,573.66	195.00	0.00	29,017.00	46,702.21	79,487.87
118-74-1	Hexachlorobenzene	1,199.39	321.61	22.02	23,524.57	11,107.40	36,174.98
1582-09-8	Trifluralin	2,896.17	1.00	115.00	17,113.70	2,390.11	22,515.98
57-74-9	Chlordane	15.49	80.00	0.00	3,630.30	331.61	4,057.40
8001-35-2	Toxaphene	42.34	6.29	0.14	3,073.89	854.53	3,977.18
608-93-5	Pentachlorobenzene	69.10	132.70	1.48	2,349.90	206.32	2,759.50
29082-74-4	Octachlorostyrene	0.00	0.12	0.00	193.00	508.60	701.72
465-73-6	Isodrin	0.35	0.00	0.00	19.00	441.40	460.75
72-43-5	Methoxychlor	25.19	0.00	0.00	334.69	95.93	455.81
—	Dioxin and dioxin-like compounds	6.37	4.08	0.33	116.36	200.88	328.01
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>2,887.571</i>	<i>1,850.869</i>	<i>148.152</i>	<i>52,771.401</i>	<i>91,100.805</i>	<i>148,758.799</i>
76-44-8	Heptachlor	6.04	0.00	0.00	271.69	28.24	305.97
309-00-2	Aldrin	0.31	0.00	0.00	0.00	1.07	1.38

\* Excludes amounts transferred to other TRI facilities in the country reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

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